

Wenguang Tu

List of Publications by Year in descending order

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54
papers

9,301
citations

94433

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161849

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docs citations

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times ranked

10794
citing authors

#	ARTICLE	IF	CITATIONS
1	Photocatalytic Conversion of CO ₂ into Renewable Hydrocarbon Fuels: State-of-the-Art Accomplishment, Challenges, and Prospects. <i>Advanced Materials</i> , 2014, 26, 4607-4626.	21.0	1,319
2	State-of-the-Art Progress in Diverse Heterostructured Photocatalysts toward Promoting Photocatalytic Performance. <i>Advanced Functional Materials</i> , 2015, 25, 998-1013.	14.9	706
3	Nickel Nanoparticles Encapsulated in Few-Layer Nitrogen-Doped Graphene Derived from Metal-Organic Frameworks as Efficient Bifunctional Electrocatalysts for Overall Water Splitting. <i>Advanced Materials</i> , 2017, 29, 1605957.	21.0	507
4	Visible-light-driven removal of tetracycline antibiotics and reclamation of hydrogen energy from natural water matrices and wastewater by polymeric carbon nitride foam. <i>Water Research</i> , 2018, 144, 215-225.	11.3	481
5	Amino-Assisted Anchoring of CsPbBr ₃ Perovskite Quantum Dots on Porous g-C ₃ N ₄ for Enhanced Photocatalytic CO ₂ Reduction. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 13570-13574.	13.8	432
6	Robust Hollow Spheres Consisting of Alternating Titania Nanosheets and Graphene Nanosheets with High Photocatalytic Activity for CO ₂ Conversion into Renewable Fuels. <i>Advanced Functional Materials</i> , 2012, 22, 1215-1221.	14.9	373
7	An In Situ Simultaneous Reduction-Hydrolysis Technique for Fabrication of TiO ₂ -Graphene 2D Sandwich-Like Hybrid Nanosheets: Graphene-Promoted Selectivity of Photocatalytic-Driven Hydrogenation and Coupling of CO ₂ into Methane and Ethane. <i>Advanced Functional Materials</i> , 2013, 23, 1743-1749.	14.9	357
8	Versatile Graphene-Promoting Photocatalytic Performance of Semiconductors: Basic Principles, Synthesis, Solar Energy Conversion, and Environmental Applications. <i>Advanced Functional Materials</i> , 2013, 23, 4996-5008.	14.9	335
9	Unique P ₁ zCo ₁ zN Surface Bonding States Constructed on g-C ₃ N ₄ Nanosheets for Drastically Enhanced Photocatalytic Activity of H ₂ Evolution. <i>Advanced Functional Materials</i> , 2017, 27, 1604328.	14.9	329
10	Investigating the Role of Tunable Nitrogen Vacancies in Graphitic Carbon Nitride Nanosheets for Efficient Visible-Light-Driven H ₂ Evolution and CO ₂ Reduction. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 7260-7268.	6.7	322
11	Formation of quasi-core-shell In ₂ S ₃ /anatase TiO ₂ @metallic Ti ₃ C ₂ T _x hybrids with favorable charge transfer channels for excellent visible-light-photocatalytic performance. <i>Applied Catalysis B: Environmental</i> , 2018, 233, 213-225.	20.2	297
12	Quasi-polymeric construction of stable perovskite-type LaFeO ₃ /g-C ₃ N ₄ heterostructured photocatalyst for improved Z-scheme photocatalytic activity via solid p-n heterojunction interfacial effect. <i>Journal of Hazardous Materials</i> , 2018, 347, 412-422.	12.4	296
13	Template-Induced High-Crystalline g-C ₃ N ₄ Nanosheets for Enhanced Photocatalytic H ₂ Evolution. <i>ACS Energy Letters</i> , 2018, 3, 514-519.	17.4	259
14	Electrical promotion of spatially photoinduced charge separation via interfacial-built-in quasi-alloying effect in hierarchical Zn ₂ In ₂ S ₅ /Ti ₃ C ₂ (O, OH) _x hybrids toward efficient photocatalytic hydrogen evolution and environmental remediation. <i>Applied Catalysis B: Environmental</i> , 2019, 245, 290-301.	20.2	229
15	Photogenerated charge transfer via interfacial internal electric field for significantly improved photocatalysis in direct Z-scheme oxygen-doped carbon nitrogen/CoAl-layered double hydroxide heterojunction. <i>Applied Catalysis B: Environmental</i> , 2018, 227, 530-540.	20.2	219
16	Construction of hierarchical 2D-2D Zn ₃ In ₂ S ₆ /fluorinated polymeric carbon nitride nanosheets photocatalyst for boosting photocatalytic degradation and hydrogen production performance. <i>Applied Catalysis B: Environmental</i> , 2018, 233, 58-69.	20.2	213
17	A Highly Efficient Oxygen Evolution Catalyst Consisting of Interconnected Nickel-Iron-Layered Double Hydroxide and Carbon Nanodomains. <i>Advanced Materials</i> , 2018, 30, 1705106.	21.0	209
18	Isolated Square-Planar Copper Center in Boron Imidazolate Nanocages for Photocatalytic Reduction of CO ₂ to CO. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 11752-11756.	13.8	194

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19	Amino-Assisted Anchoring of CsPbBr ₃ Perovskite Quantum Dots on Porous g-C ₃ N ₄ for Enhanced Photocatalytic CO ₂ Reduction. <i>Angewandte Chemie</i> , 2018, 130, 13758-13762.	2.0	172
20	Au@TiO ₂ yolk-shell hollow spheres for plasmon-induced photocatalytic reduction of CO ₂ to solar fuel via a local electromagnetic field. <i>Nanoscale</i> , 2015, 7, 14232-14236.	5.6	153
21	Phosphonate-Based Metal-Organic Framework Derived Co-P-C Hybrid as an Efficient Electrocatalyst for Oxygen Evolution Reaction. <i>ACS Catalysis</i> , 2017, 7, 6000-6007.	11.2	149
22	The pulsed laser-induced Schottky junction via in-situ forming Cd clusters on CdS surfaces toward efficient visible light-driven photocatalytic hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2019, 258, 117967.	20.2	148
23	Photocatalytic reduction of CO ₂ over Ag/TiO ₂ nanocomposites prepared with a simple and rapid silver mirror method. <i>Nanoscale</i> , 2016, 8, 11870-11874.	5.6	139
24	Construction of unique two-dimensional MoS ₂ -TiO ₂ hybrid nanojunctions: MoS ₂ as a promising cost-effective cocatalyst toward improved photocatalytic reduction of CO ₂ to methanol. <i>Nanoscale</i> , 2017, 9, 9065-9070.	5.6	134
25	Tailored indium sulfide-based materials for solar-energy conversion and utilization. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2019, 38, 1-26.	11.6	127
26	Rational Design of Catalytic Centers in Crystalline Frameworks. <i>Advanced Materials</i> , 2018, 30, e1707582.	21.0	103
27	Constructing noble-metal-free Z-scheme photocatalytic overall water splitting systems using MoS ₂ nanosheet modified CdS as a H ₂ evolution photocatalyst. <i>Journal of Materials Chemistry A</i> , 2017, 5, 21205-21213.	10.3	92
28	MOF-derived hierarchical hollow spheres composed of carbon-confined Ni nanoparticles for efficient CO ₂ methanation. <i>Catalysis Science and Technology</i> , 2019, 9, 731-738.	4.1	87
29	Ultralow-temperature assisted synthesis of single platinum atoms anchored on carbon nanotubes for efficiently electrocatalytic acidic hydrogen evolution. <i>Journal of Energy Chemistry</i> , 2020, 51, 280-284.	12.9	84
30	Isolated Ni single atoms in nitrogen doped ultrathin porous carbon templated from porous g-C ₃ N ₄ for high-performance CO ₂ reduction. <i>Nano Energy</i> , 2020, 77, 105158.	16.0	83
31	Effects of composition faults in ternary metal chalcogenides (Zn In ₂ S ₃ , x ⁻ =1 ⁻⁵) layered crystals for visible-light-driven catalytic hydrogen generation and carbon dioxide reduction. <i>Applied Catalysis B: Environmental</i> , 2019, 256, 117810.	20.2	82
32	Hollow spheres consisting of Ti _{0.91} O ₂ /CdS nanohybrids for CO ₂ photofixation. <i>Chemical Communications</i> , 2015, 51, 13354-13357.	4.1	71
33	Double-shelled plasmonic Ag-TiO ₂ hollow spheres toward visible light-active photocatalytic conversion of CO ₂ into solar fuel. <i>APL Materials</i> , 2015, 3, .	5.1	59
34	Anchoring Active Pt ²⁺ /Pt ⁰ Hybrid Nanodots on g-C ₃ N ₄ Nitrogen Vacancies for Photocatalytic H ₂ Evolution. <i>ChemSusChem</i> , 2019, 12, 2029-2034.	6.8	54
35	Manipulating Intermediates at the Au-TiO ₂ Interface over InP Nanopillar Array for Photoelectrochemical CO ₂ Reduction. <i>ACS Catalysis</i> , 2021, 11, 11416-11428.	11.2	48
36	New black indium oxide tandem photothermal CO ₂ -H ₂ methanol selective catalyst. <i>Nature Communications</i> , 2022, 13, 1512.	12.8	47

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37	Direct Growth of Fe ₂ V ₄ O ₁₃ Nanoribbons on a Stainless Steel Mesh for Visible-Light Photoreduction of CO ₂ into Renewable Hydrocarbon Fuel and Degradation of Gaseous Isopropyl Alcohol. <i>ChemPlusChem</i> , 2013, 78, 274-278.	2.8	41
38	Hollow InVO ₄ Nanocuboid Assemblies toward Promoting Photocatalytic N ₂ Conversion Performance. <i>Advanced Materials</i> , 2021, 33, e2006780.	21.0	38
39	Isolated Square-Planar Copper Center in Boron Imidazolate Nanocages for Photocatalytic Reduction of CO ₂ to CO. <i>Angewandte Chemie</i> , 2019, 131, 11878-11882.	2.0	32
40	Rational Synthesis of Amorphous Iron-Nickel Phosphonates for Highly Efficient Photocatalytic Water Oxidation with Almost 100% Yield. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 1171-1175.	13.8	32
41	Host/Guest Nanostructured Photoanodes Integrated with Targeted Enhancement Strategies for Photoelectrochemical Water Splitting. <i>Advanced Science</i> , 2022, 9, e2103744.	11.2	31
42	Construction of hole-transported MoO ₃ coupled with CdS nanospheres for boosting photocatalytic performance via oxygen-defects-mediated Z-scheme charge transfer. <i>Applied Organometallic Chemistry</i> , 2019, 33, e4780.	3.5	29
43	Single Pd ^S Sites <i>In Situ</i> Coordinated on CdS Surface as Efficient Hydrogen Autotransfer Shuttles for Highly Selective Visible-Light-Driven C-N Coupling. <i>ACS Catalysis</i> , 2022, 12, 4481-4490.	11.2	28
44	Premixed Stagnation Flame Synthesized TiO ₂ Nanoparticles with Mixed Phases for Efficient Photocatalytic Hydrogen Generation. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 14470-14479.	6.7	25
45	Highly Efficient Solar-Driven Photothermal Performance in Au-Carbon Core-Shell Nanospheres. <i>Solar Rrl</i> , 2017, 1, 1600032.	5.8	24
46	Single-Ni Sites Embedded in Multilayer Nitrogen-Doped Graphene Derived from Amino-Functionalized MOF for Highly Selective CO ₂ Electroreduction. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 3792-3801.	6.7	24
47	Microstructure modulation of the CH ₃ NH ₃ PbI ₃ layer in perovskite solar cells by 2-propanol pre-wetting and annealing in a spray-assisted solution process. <i>Journal of Materials Chemistry A</i> , 2016, 4, 11372-11380.	10.3	17
48	Formation of 3D interconnectively macro/mesoporous TiO ₂ sponges through gelation of lotus root starch toward CO ₂ photoreduction into hydrocarbon fuels. <i>RSC Advances</i> , 2014, 4, 43172-43177.	3.6	15
49	In Situ Determination of Polaron-Mediated Ultrafast Electron Trapping in Rutile TiO ₂ Nanorod Photoanodes. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 10815-10822.	4.6	14
50	Fabrication of Oxygen-Doped Double-Shelled GaN Hollow Spheres toward Efficient Photoreduction of CO ₂ . <i>Particle and Particle Systems Characterization</i> , 2016, 33, 583-588.	2.3	13
51	Shedding light on CO ₂ : Catalytic synthesis of solar methanol. <i>EcoMat</i> , 2021, 3, e12078.	11.9	13
52	Photoconversion: Photocatalytic Conversion of CO ₂ into Renewable Hydrocarbon Fuels: State-of-the-Art Accomplishment, Challenges, and Prospects (<i>Adv. Mater.</i> 27/2014). <i>Advanced Materials</i> , 2014, 26, 4598-4598.	21.0	7
53	Instant, template-free and fluorine-free synthesis of TiO ₂ nanotube arrays with a room-temperature solid-liquid arc discharge technique. <i>CrystEngComm</i> , 2012, 14, 7583.	2.6	5
54	Rational Synthesis of Amorphous Iron-Nickel Phosphonates for Highly Efficient Photocatalytic Water Oxidation with Almost 100% Yield. <i>Angewandte Chemie</i> , 2020, 132, 1187-1191.	2.0	4